

Cumulative Practice

For use after Chapter 1

Evaluate the expression when $a = 3$. (Lesson 1.1)

1. $a + 6$

2. $17 - a$

3. $5a$

4. $\frac{21}{a}$

Evaluate the expression when $x = 5$, $y = 2$, and $z = 4$. (Lesson 1.1)

5. $x + y$

6. $z - y$

7. xz

8. $\frac{z}{y}$

Write the product using an exponent. (Lesson 1.2)

9. $14 \cdot 14 \cdot 14$

10. $c \cdot c \cdot c \cdot c \cdot c$

11. $(3.6)(3.6)$

Write the power in words and as a repeated multiplication. Then evaluate the power. (Lesson 1.2)

12. 6^4

13. 11^3

14. $(1.8)^2$

15. 3^8

Evaluate the expression. (Lesson 1.3)

16. $14.7 + 3 \cdot 5$

17. $6 \cdot 7 - 9 \cdot 2$

18. $\frac{53 + 13}{8 - 5}$

19. $2(35 - 4^2)$

Evaluate the expression when $a = 7$, $b = 3$, and $c = 2$. (Lesson 1.3)

20. $0.45c + b$

21. $(a - c)^3 + b$

22. $ab - 2c$

23. $b + (10 - a)^4$

24. $(2 - c)^2 + a$

25. $3a - \frac{4b}{c}$

Complete the statement using $<$ or $>$. (Lesson 1.4)

26. -5 ? 6

27. 4 ? -10

28. -13 ? 2

29. -12 ? -7

State the absolute value of the number. (Lesson 1.4)

30. -19

31. 8

32. -1

33. -34

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Find the sum. (Lesson 1.5)

34. $4 + (-22)$

35. $-9 + 2$

36. $-1 + (-16)$

37. $-85 + 40$

38. $-10 + (-21)$

39. $18 + (-5)$

40. $-6 + 74$

41. $31 + (-61)$

42. $13 + (-13)$

Evaluate the expression when $x = -3$, $y = 4$, and $z = -1$. (Lesson 1.5)

43. $22 + y$

44. $z + y$

45. $y + (-14)$

46. $x + z$

47. $-8 + x$

48. $x + y$

49. $z + 10$

50. $-24 + y$

Find the difference. (Lesson 1.6)

51. $6 - (-2)$

52. $5 - 9$

53. $-1 - (-8)$

54. $21 - 46$

55. $-16 - (-19)$

56. $15 - (-9)$

57. $8 - 53$

58. $-30 - 12$

59. $17 - (-33)$

Simplify. (Lesson 1.7)

60. $-34 \div 2$

61. $-5(21)$

62. $-45 \div (-9)$

63. $10(-1)(-12)$

64. $75 \div 3(-5)$

65. $-3(-28) \div (-4)$

Plot the point in a coordinate plane. Describe the location of the point. (Lesson 1.8)

66. $(6, -2)$

67. $(-2, 3)$

68. $(-1, -4)$

69. $(0, 0)$

70. $(8, 5)$

71. $(0, -6)$

72. $(1, 7)$

73. $(3, 0)$